

— DUDOXX ENGINEERING COURSE · 2026

Quantum Computing 2026

A hands-on learning course.

Seventeen short topics, written for engineers — not physicists, not executives. By the end you will read a 2026 quantum paper, write a working Bell state, and know which post-quantum algorithm to deploy.

— WHAT YOU'LL LEARN

Three outcomes, *three acts.*

● Read a 2026 paper, tell hype from substance

● Write a Bell state in Qiskit, run it on real hardware

● Deploy the right post-quantum algorithm today



FOUNDATIONS

Topics 00–03 · qubits, gates, circuits, your first Qiskit program.



THE MACHINES

Topics 04–08 · five hardware modalities, error correction, honest roadmaps.



ALGORITHMS & PRACTICE

Topics 09–16 · Grover, Shor, V Q E, Q M L, frameworks, post-quantum crypto.

— HOW TO FOLLOW ALONG

Watch it through, or *pick your topics.*

~125

MINUTES TOTAL

Seventeen topics, each two to eleven minutes
— short enough to watch over coffee.

17

STANDALONE TOPICS

Every chapter stands on its own. Watch
sequentially for the full arc, or jump.

Free

I B M QUANTUM TIER

Hands-on segments run on real hardware via
a free I B M Quantum account.

Every chapter ends with a *Try it yourself* slide — pause, open Qiskit, run the snippet. The course rewards doing, not just watching.

● Next up — Topic 01 · Why quantum computing in 2026